

SEQUENCE LISTING

<110> Vogels, Ronald Havenga, Menzo Bout, Abraham

<120> Gene delivery vectors provided with a tissue tropism for smo oth muscle cells, and/or endothelial cells

<130> 2183-4231US

<140> US 09/444,284

<141> 1999-11-19

<150> EP 98203921.6

<151> 1998-11-20

<160> 24

<170> PatentIn version 3.0

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<213> Adenoviridae
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accggtcctc caactgtgcc ttttcttact cctccctttg tatcccccaa tgggtttcaa
  120
gagagteece etggggtaet etetttgege etateegaac etetagttae etecaatgge
atgettgege teaaaatggg caaeggeete tetetggaeg aggeeggeaa cettaeetee
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caaaatgtaa ccactgtgag cccacctctc aaaaaaacca agtcaaacat aaacctggaa
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- atatetgeae ceetcaeagt taceteagaa geectaactg tggetgeege egeaceteta 360
- atggtcgcgg gcaacacact caccatgcaa tcacaggccc cgctaaccgt gcacgactcc 420
- aaacttagca ttgccaccca aggacccctc acagtgtcag aaggaaagct agccctgcaa 480
- acatcaggcc ccctcaccac caccgatagc agtaccctta ctatcactgc ctcaccccct 540
- ctaactactg ccactggtag cttgggcatt gacttgaaag agcccattta tacacaaaat 600
- ggaaaactag gactaaagta cggggctcct ttgcatgtaa cagacgacct aaacactttg 660
- accgtagcaa ctggtccagg tgtgactatt aataatactt ccttgcaaac taaagttact 720
- ggagcettgg gttttgatte acaaggeaat atgeaactta atgtagcagg aggaetaagg 780
- attgattctc aaaacagacg ccttatactt gatgttagtt atccgtttga tgctcaaaac 840
- caactaaatc taagactagg acagggccct ctttttataa actcagccca caacttggat 900
- attaactaca acaaaggcct ttacttgttt acagcttcaa acaattccaa aaagcttgag 960
- gttaacctaa gcactgccaa ggggttgatg tttgacgcta cagccatagc cattaatgca 1020
- attggccatg gcctagaatt tgattcaaac aaggctatgg ttcctaaact aggaactggc 1140
- cttagttttg acagcacagg tgccattaca gtaggaaaca aaaataatga taagctaact 1200
- ttgtggacca caccagctcc atctcctaac tgtagactaa atgcagagaa agatgctaaa 1260

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ctcactttgg tcttaacaaa atgtggcagt caaatacttg ctacagtttc agttttggct
 1320
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 1380
tttgacgaaa atggagtgct actaaacaat tccttcctgg acccagaata ttggaacttt
 1440
agaaatggag atcttactga aggcacagcc tatacaaacg ctgttggatt tatgcctaac
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tacttaaacg gagacaaaac taaacctgta acactaacca ttacactaaa cggtacacag
 1620
gaaacaggag acacaactcc aagtgcatac tctatgtcat tttcatggga ctggtctggc
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<223> n can be any nucleotide
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- gacacatcag acgtaccctt tgttacaccc ccttttactt cttccaatgg tcttcaagaa 120
- aaaccaccag gtgtattagc acttaattac aaagacccca ttgtaactga aaatggaacc 180
- cttacactca agctaggga cggaataaaa cttaatgccc aaggtcaact tacagctagt 240
- aataatatca atgttttgga gccccttacc aacacctcac aaggtcttaa actttcttgg 300
- agegeeece tageagtaaa ggetagtgee eteacaetta acacaagage geeettaace 360
- acaacggatg aaagcttagc cttaataacc gcccctccca ttacagtaga gtcttcgcgt 420
- ttgggcttgg ccaccatagc ccctctaagc ttagatggag gtggaaacct aggtttaaat 480
- ctttctgctc ccctggacgt tagtaacaac aatttgcatc tcaccactga aactccctta 540
- gttgtaaatt ctagcggtgc cctatctgtt gctactgcag accccataag tgttcgcaac 600
- aacgctctta ccctacctac ggcagatccg ttaatggtga gctccgatgg gttgggaata 660
- agtgtcacta gtcccattac agtaataaac ggttccttag ccttgtctac aactgctccc 720
- ctcaacagca caggatccac tttaagtctg tctgttgcca atcctctgac tatttcacaa 780
- gacacattga ctgtttccac tggtaacggt cttcaagtgt cggggtctca attagtaaca 840
- agaatagggg atggtttaac attcgataat ggggtcatga aagtaaacgt tgccggggga 900
- atgagaactt ctggcggtag aataatttta gatgttaatt atccctttga tgcgagcaat 960
- aacctgtcct taagacgggg attgggacta atttataacc aatctacaaa ctggaactta 1020

acaactqata ttagtaccga aaaaggttta atgtttagtg gcaatcaaat agctcttaat 1080 qcaggtcagg ggcttacatt taataatggc caacttaggg ttaagttggg agctggactt 1140 atttttgatt caaacaataa cattgcctta ggcagcagca gcaacactcc atacgaccct 1200 ctgacactgt ggacaactcc tgacccacca ccaaactgca gcctcataca agagctagat 1260 qcaaaactca ccctgtgctt aacaaaaaac ggatctattg ttaatggcat tgtaagttta 1320 gtgggtgtta agggtaatct cctaaatatc caaagtacta ctaccactgt aggagtgcat 1380 ttagtgtttg atgaacaggg aagattaatc acatcaaccc ctactgccct ggttccccaa 1440 gcttcgtggg gatatagaca aggccaatca gtgtctacca atactgttac caatggtcta 1500 ggttttatgc ctaatgtgag tgcttaccct agaccaaatg ccagtgaggc taaaagccaa atggtaagtc tcacgtactt acagggagat acatctaaac ctataacaat gaaagttgca 1620 tttaatggca ttacgtcgct aaatggatac tctttaacat tcatgtggtc aggtctatca 1680 aactatataa atcagccttt ctctacacca tcctgctcct tntcttacat tgcccaagaa 1740 taaatgcatt ag 1752 <210> 18 <211> 1071 <212> DNA <213> Adenoviridae <220> <221> misc_feature

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- agcageteae aacaceeett tataaaceet ggttteattt eeteaaatgg ttttgeacaa 120
- agcccagatg gagttctaac tcttaaatgt gttaatccac tcactaccgc cagcggaccc 180
- ctccaactta aagttggaag cagtcttaca gtagatacta tcgatgggtc tttggaggaa 240
- aatataactg ccgaagcgcc actcactaaa actaaccact ccataggttt attaatagga 300
- tctggcttgc aaacaaagga tgataaactt tgtttatcgc tgggagatgg gttggtaaca 360
- aaggatgata aactatgttt atcgctggga gatgggttaa taacaaaaaa tgatgtacta 420
- tgtgccaaac taggacatgg ccttgtgttt gactcttcca atgctatcac catagaaaac 480
- aacaccttgt ggacaggcgc aaaaccaagc gccaactgtg taattaaaga gggagaagat 540
- tececagaet gtaageteae tttagtteta gtgaagaatg gaggaetgat aaatggatae 600
- ataacattaa tgggagcctc agaatatact aacaccttgt ttaaaaaacaa tcaagttaca 660
- atcgatgtaa acctcgcatt tgataatact ggccaaatta ttacttacct atcatccctt 720
- aaaagtaacc tgaactttaa agacaaccaa aacatggcta ctggaaccat aaccagtgcc 780
- aaaggettea tgeecageae caeegeetat eeatttataa cataegeeae tgagaeeeta 840
- aatgaagatt acatttatgg agagtgttac tacaaatcta ccaatggaac tctctttcca 900

- aatttttcat ggtctctaaa tgcagaggaa gccccggaaa ctaccgaagt cactctcatt 1020
- acctcccct tcttttttc ttatatcaga gaagatgact gaatgcatta g 1071
- <210> 19
- <211> 1101
- <212> DNA
- <213> Adenoviridae
- <220>
- <221> misc_feature
- <223> /note="Ad5/fib28 chimeric fiber"
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- tatggctacg cgcggaatca gaatatcccc ttcctcactc ccccctttgt ttcttccgat 120
- ggattccaaa acttcccacc tggggtcctg tcactcaaac tggctgaccc aatcaccatc 180
- gctaatgggg atgtctcact caagttggga ggcggactga cggtggaaaa agagtctgga 240
- aacttaactg tgaaccctaa ggctcccttg caagttgcaa gtggacaatt ggaattagca 300
- tatgattctc catttgatgt taaaaacaat atgcttactc ttaaagcagg tcacggctta 360
- gcagttgtaa cgaaagacaa tactgattta caaccactaa tgggcacact tgttgtttta 420
- actggcaaag gcattggcac tggcacaagt gctcacggtg gaaccataga tgtgagaata 480
- ggaaaaaacg gaagtctggc atttgacaaa aatggagatt tggtggcctg ggataaagaa 540

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aatgacaggc gcactctatg gacaactcca gacacatctc caaattgcaa aatgagtgaa
  600
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gtatctttgc ttgctgtaaa aggagaatat caaaatatga ctgccagtac taataagaat
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  840
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  900
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<213> Adenoviridae
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<223> n can be any nucleotide
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- ggcttgcaag aaaaacctcc gggagtcctc agcctgaaat acactgatcc acttacaacc 180
- aaaaacgggg ctttaacctt aaaattgggc acgggactaa acattgataa aaatggagat 240
- ctttcttcag atgctagcgt ggaagttagc gcccctatca ctaaaaccaa caaaatcgta 300
- ggtttaaatt acactaagcc tctcgctctg caaaataacg cgcttactct ttcttacaac 360
- gcgcccttta acgtagtaaa taataattta gctctaaata tgtcacagcc tgttactatt 420
- aatgcaaaca acgaactttc tctcttaata gacgccccac ttaatgctga cacgggcact 480
- cttcgccttc gaagtgatgc acctcttgga ctagtagaca aaacactaaa ggttttgttt 540
- tctagccccc tctatctaga taataacttt cttacactag ccattgaacg cccgctagct 600
- ctatccagta acagagcagt ggcccttaag tattcaccac ctttaaaaaat agaaaacgaa 660
- aacttaaccc taagcacagg cggacctttt actgtaagcg ggggaaattt aaacctggca 720
- acateggeae eceteteegt geaaaacaat teteteteet taggggttaa eeegeetttt 780
- ctcatcactg actctggatt agctatggac ttaggagacg gtcttgcatt aggtggctct 840
- aagttaataa tcaatcttgg tccaggttta caaatgtcta atggagctat tactttagca 900
- ctagatgcag cgctgccttt gcaatataaa aacaaccaac ttcaactcag aattggctcc 960

- gcgtctgctt taattatgag cggagtaaca caaacattaa acgtcaatgc caataccagc 1020
- aaaggtettg etattgaaaa taacteacta gttgttaage taggaaaegg tettegettt 1080
- gatagctggg gaagcatagc tgtctcacct actaccacta cccctaccac cctatggacc 1140
- accgcggacc cgtctcctaa cgccactttt tatgaatcac tagacgccaa agtgtggcta 1200
- gttttagtaa aatgcaacgg catggttaac gggaccatat ccattaaagc tcaaaaaggc 1260
- actttactta aacccacage tagetttatt teetttgtea tgtattttta cagegaegga 1320
- acgtggagga aaaactatcc cgtgtttgac aacgaaggga tactagcaaa cagtgccaca 1380
- tggggttatc gacaaggaca gtctgccaac actaacgttt ccaatgctgt agaatttatg 1440
- cctagctcta aaaggtatcc caatgaaaaa ggttctgaag ttcagaacat ggctcttacc 1500
- tacacttttt tgcaaggtga ccctaacatg gccatatctt ttcagagcat ttataatcat 1560
- gcaatagaag gctactcatt aaaattcncc tggcgcgttc gaaataatga acgttttgac 1620
- atcccctgtt gctcattttc ttatgtaaca gaacaataaa tgcattag 1668
- <210> 21
- <211> 1062
- <212> DNA
- <213> Adenoviridae
- <220>
- <221> misc feature
- <223> /note="Adenovirus16 fiber sequence"

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- agcageteae aacaceett tataaaceet ggttteattt eeteaaatgg ttttgeacaa 120
- agcccagatg gagttctaac tcttaaatgt gttaatccac tcactaccgc cagcggaccc 180
- ctccaactta aagttggaag cagtcttaca gtagatacta tcgatgggtc tttggaggaa 240
- aatataactg ccgcagcgcc actcactaaa actaaccact ccataggttt attaatagga 300
- tctggcttgc aaacaaagga tgataaactt tgtttatcgc tgggagatgg gttggtaaca 360
- aaggatgata aactatgttt atcgctggga gatgggttaa taacaaaaa tgatgtacta 420
- tgtgccaaac taggacatgg ccttgtgttt gactcttcca atgctatcac catagaaaac 480
- aacaccttgt ggacaggcgc aaaaccaagc gccaactgtg taattaaaga gggagaagat 540
- tccccagact gtaagctcac tttagttcta gtgaagaatg gaggactgat aaatggatac 600
- ataacattaa tgggagcctc agaatatact aacaccttgt ttaaaaacaa tcaagttaca 660
- atcgatgtaa acctcgcatt tgataatact ggccaaatta ttacttacct atcatccctt 720
- aaaagtaacc tgaactttaa agacaaccaa aacatggcta ctggaaccat aaccagtgcc 780
- aaaggettea tgeecageae caeegeetat eeatttataa cataegeeae tgagaeeeta 840
- aatgaagatt acatttatgg agagtgttac tacaaatcta ccaatggaac tctctttcca 900

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aatttttcat ggtctctaaa tgcagaggaa gccccggaaa ctaccgaagt cactctcatt 1020
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acctccccct tctttttttc ttatatcaga gaagatgact ga 1062

- <210> 22
- <211> 1074
- <212> DNA
- <213> Adenoviridae
- <220>
- <221> misc_feature
- <223> /note="Adenovirus5/chimeric fiber16 sequence"
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- tatgaagatg aaagcagctc acaacacccc tttataaacc ctggtttcat ttcctcaaat 120
- ggttttgcac aaagcccaga tggagttcta actcttaaat gtgttaatcc actcactacc
- gccagcggac ccctccaact taaagttgga agcagtctta cagtagatac tatcgatggg 240
- tctttggagg aaaatataac tgccgaagcg ccactcacta aaactaacca ctccataggt 300
- ttattaatag gatctggctt gcaaacaaag gatgataaac tttgtttatc gctgggagat 360
- gggttggtaa caaaggatga taaactatgt ttatcgctgg gagatgggtt aataacaaaa 420
- aatgatgtac tatgtgccaa actaggacat ggccttgtgt ttgactcttc caatgctatc 480
- accatagaaa acaacactt gtggacaggc gcaaaaccaa gcgccaactg tgtaattaaa 540
- gagggagaag attccccaga ctgtaagctc actttagttc tagtgaagaa tggaggactg 600

- ataaatggat acataacatt aatgggagcc tcagaatata ctaacacctt gtttaaaaac 660
- aatcaagtta caatcgatgt aaacctcgca tttgataata ctggccaaat tattacttac 720
- ctatcatccc ttaaaagtaa cctgaacttt aaagacaacc aaaacatggc tactggaacc 780
- ataaccagtg ccaaaggett catgeccage accaeegeet atecatttat aacataegee 840
- actgagaccc taaatgaaga ttacatttat ggagagtgtt actacaaatc taccaatgga 900
- actctctttc cactaaaagt tactgtcaca ctaaacagac gtatgttagc ttctggaatg 960
- gcctatgcta tgaatttttc atggtctcta aatgcagagg aagccccgga aactaccgaa 1020
- gtcactctca ttacctcccc cttcttttt tcttatatca gagaagatga ctga 1074
- <210> 23
- <211> 353
- <212> PRT
- <213> Adenoviridae
- <220>

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- <221> misc_feature
- <223> /note="Adenovirus16 fiber protein sequence"
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- Tyr Glu Asp Glu Ser Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe 20 25 30
- Ile Ser Ser Asn Gly Phe Ala Gln Ser Pro Asp Gly Val Leu Thr Leu 35 40 45
- Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Pro Leu Gln Leu Lys

	50					55					60				
Va: 65	l G1	y Se	r Se	r Le	u Th: 70	r Va	l Ası	p Th:	r Il	e As:	p Gly	y Se:	r Le	u Gl	u Glu 80
Ası	n Il	e Th	r Al	a Ala 85	a Ala	a Pro	o Lei	ı Thi	r Lys 90	s Th	r Asr	n His	s Se:	r Ile 95	e Gly
Lei	ı Le	u Il	e Gl	y Sei)	c Gly	/ Lei	ı Glr	105	Lys	s Ası	o Asp	Lys	Lei 11(5 Leu
Ser	Lei	u Gl; 11	y Ası 5	o Gly	/ Lei	ı Va]	120	Lys	s Asp	Asp	o Lys	Leu 125	ı Cys	5 Leu	ı Ser
Leņ	130	y Asj	p Gly	/ Leu	ı Ile	Thr 135	Lys	as Asn	Asp	Va]	Leu 140		Ala	a Lys	Leu
Gly 145	His	Gl <u>y</u>	y Let	ı Val	Phe 150	Asp	Ser	Ser	Asn	Ala 155	ılle	Thr	· Ile	e Glu	Asn 160
Asn	Thr	Let	ı Trp	Thr 165	Gly	Ala	. Lys	Pro	Ser 170		Asn	Cys	Val	Ile 175	Lys
Glu	Gly	Glu	180	Ser	Pro	Asp	Cys	Lys 185	Leu	Thr	Leu	Val	Leu 190	Val	Lys
Asn	Gly	Gly 195	Leu	Ile	Asn	Gly	Tyr 200	Ile	Thr	Leu	Met	Gly 205	Ala	Ser	Glu
Tyr	Thr 210	Asn	Thr	Leu	Phe	Lys 215	Asn	Asn	Gln	Val	Thr 220	Ile	Asp	Val	Asn
Leu 225	Ala	Phe	Asp	Asn	Thr 230	Gly	Gln	Ile	Ile	Thr 235	Tyr	Leu	Ser	Ser	Leu 240
Lys	Ser	Asn	Leu	Asn 245	Phe	Lys	Asp	Asn	Gln 250	Asn	Met	Ala	Thr	Gly 255	Thr
Ile	Thr	Ser	Ala 260	Lys	Gly	Phe	Met	Pro 265	Ser	Thr	Thr	Ala	Tyr 270	Pro	Phe
Ile	Thr	Tyr 275	Ala	Thr	Glu	Thr	Leu 280	Asn	Glu	Asp	Tyr	Ile 285	Tyr	Gly	Glu
Cys	Tyr 290	Tyr	Lys	Ser	Thr	Asn 295	Gly	Thr	Leu	Phe	Pro 300	Leu	Lys	Val	Thr
Val	Thr	Leu	Asn	Arg	Arg	Met	Leu	Ala	Ser	Gly	Met	Ala	Tvr	Δla	Mot

305 310 315 320 Asn Phe Ser Trp Ser Leu Asn Ala Glu Glu Ala Pro Glu Thr Thr Glu 325 330 Val Thr Leu Ile Thr Ser Pro Phe Phe Phe Ser Tyr Ile Arg Glu Asp 340 345 Asp <210> 24 <211> 353 <212> PRT <213> Adenoviridae <220> <221> misc_feature /note="Adenovirus16A fiber protein sequence" <223> <400> 24 Met Lys Arg Ala Arg Pro Ser Glu Asp Thr Phe Asn Pro Val Tyr Pro 1 5 15 Tyr Glu Asp Glu Ser Ser Gln His Pro Phe Ile Asn Pro Gly Phe 20 25 Ile Ser Ser Asn Gly Phe Ala Gln Ser Pro Asp Gly Val Leu Thr Leu 35 45 Lys Cys Val Asn Pro Leu Thr Thr Ala Ser Gly Pro Leu Gln Leu Lys 50 55 Val Gly Ser Ser Leu Thr Val Asp Thr Ile Asp Gly Ser Leu Glu Glu 80 Asn Ile Thr Ala Glu Ala Pro Leu Thr Lys Thr Asn His Ser Ile Gly 85 Leu Leu Ile Gly Ser Gly Leu Gln Thr Lys Asp Asp Lys Leu Cys Leu 100 105

Leu Gly Asp Gly Leu Ile Thr Lys Asn Asp Val Leu Cys Ala Lys Leu

Ser Leu Gly Asp Gly Leu Val Thr Lys Asp Asp Lys Leu Cys Leu Ser

120

115

125

Gly His Gly Leu Val Phe Asp Ser Ser Asn Ala Ile Thr Ile Glu Asn Asn Thr Leu Trp Thr Gly Ala Lys Pro Ser Ala Asn Cys Val Ile Lys Glu Gly Glu Asp Ser Pro Asp Cys Lys Leu Thr Leu Val Leu Val Lys Asn Gly Gly Leu Ile Asn Gly Tyr Ile Thr Leu Met Gly Ala Ser Glu Tyr Thr Asn Thr Leu Phe Lys Asn Asn Gln Val Thr Ile Asp Val Asn Leu Ala Phe Asp Asn Thr Gly Gln Ile Ile Thr Tyr Leu Ser Ser Leu Lys Ser Asn Leu Asn Phe Lys Asp Asn Gln Asn Met Ala Thr Gly Thr Ile Thr Ser Ala Lys Gly Phe Met Pro Ser Thr Thr Ala Tyr Pro Phe Ile Thr Tyr Ala Thr Glu Thr Leu Asn Glu Asp Tyr Ile Tyr Gly Glu Cys Tyr Tyr Lys Ser Thr Asn Gly Thr Leu Phe Pro Leu Lys Val Thr Val Thr Leu Asn Arg Arg Met Leu Ala Ser Gly Met Ala Tyr Ala Met Asn Phe Ser Trp Ser Leu Asn Ala Glu Glu Ala Pro Glu Thr Thr Glu

Val Thr Leu Ile Thr Ser Pro Phe Phe Phe Ser Tyr Ile Arg Glu Asp

Asp